

इंटरनेट

मानक

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Mazdoor Kisan Shakti Sangathan

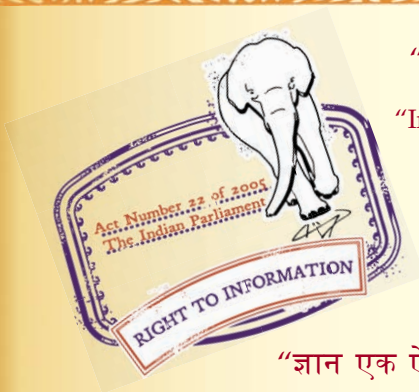
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS/IEC 60862-3 (2003): Surface Acoustic Wave (SAW) Filters of Assessed Quality, Part 3: Standard Outlines [LITD 5: Semiconductor and Other Electronic Components and Devices]



“ज्ञान से एक नये भारत का निर्माण”

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“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक
ध्वनि संबंधी सतह तरंग (एस ए डब्ल्यू) फिल्टर की निर्धारित गुणता
भाग 3 मानक रूपरेखा

Indian Standard
SURFACE ACOUSTIC WAVE (SAW) FILTERS OF
ASSESSED QUALITY
PART 3 STANDARD OUTLINES

ICS 31.140

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

NATIONAL FOREWORD

This Indian Standard (Part 3) which is identical with IEC 60862-3 : 2003 'Surface acoustic wave (SAW) filters of assessed quality — Part 3: Standard outlines' issued by the International Electrotechnical Commission (IEC) was adopted by the Bureau of Indian Standards on the recommendation of the Electronic Components and Modules Sectional Committee and approval of the Electronics and Information Technology Division Council.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

Only the English language text in the IEC Standard has been retained while adopting it in this Indian Standard and as such the page numbers given here are not the same as in the IEC Standard.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***SURFACE ACOUSTIC WAVE (SAW) FILTERS OF
ASSESSED QUALITY****PART 3 STANDARD OUTLINES****1 Scope**

This part of IEC 60862 specifies the outline drawings for surface acoustic wave (SAW) filters with leaded enclosures.

**2 Guidance for the standardization of outline drawings
for frequency control and selection devices**

In order to achieve a uniform presentation of all outline drawings for frequency control and selection devices the following guide should be considered:

2.1 An outline drawing should show all dimensional and geometrical characteristics of an enclosure necessary to ensure mechanical interchangeability with all other enclosures of the same outline. Enlarged detail view may be used, if necessary.

2.2 The outline drawing should consist of three parts:

2.2.1 A drawing with dimensional symbols (capital letters) as shown in Figure 1 below with applicable notes, if necessary.

2.2.2 A tabular listing relating the drawing symbols to the actual dimensions. Where possible this should be shown on the same page as the drawing.

2.2.3 An “actual-size” sketch (scale 1:1).

2.3 The outline drawing should be executed in the third angle projection.

2.4 The function and identification of the lead connections (termination) should be determined by agreement between the supplier and user. They should not be defined on the outline drawing.

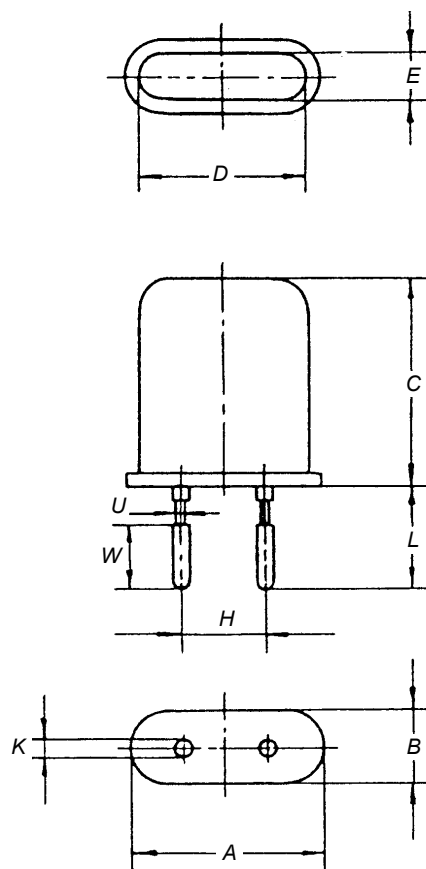
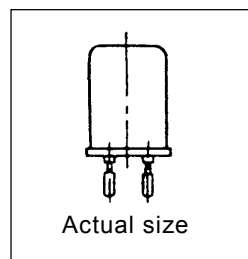
2.5 Descriptive notes may be used at the bottom of, or adjacent to, the drawing with proper reference to the body of the drawing.

2.6 All dimensions should be in millimetres.

2.7 Outline dimensions *A*, *B*, *C*, *D* and *E* should be listed with maximum values only.

2.8 Lead (termination) cross-sectional dimensions should be listed with minimum and maximum values. If applicable, nominal dimensions may be added.

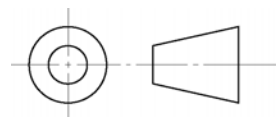
2.9 The spacing of the leads (terminations) – symbol *H* – should be listed with minimum, maximum and nominal dimensions.



Ref.	Dimensions (mm)			Notes
	Min.	Nom.	Max.	
A	—	—	x	
B	—	—	x	
C	—	—	x	
D	—	—	x	
E	—	—	x	
H	x	x	x	
K	x	—	x	1
L	x	—	x	
U	x	—	—	2
W	x	—	—	2

NOTE 1....

NOTE 2....

Figure 1 – Guidance for outline drawingsScale
2:1

Sheet --

Date:

2.10 Leads (terminations) for soldering application should be specified with the minimum length dimensions (symbol L) only.

2.11 Lead (termination) for plug-in application should be specified with minimum and maximum length dimensions.

2.12 If leads (terminations) are provided with an undercut, dimensions U and W should be listed with minimum dimensions only.

3 Dimensions of surface acoustic wave (SAW) filter outlines

The dimensions in this standard apply to the completed SAW filters.

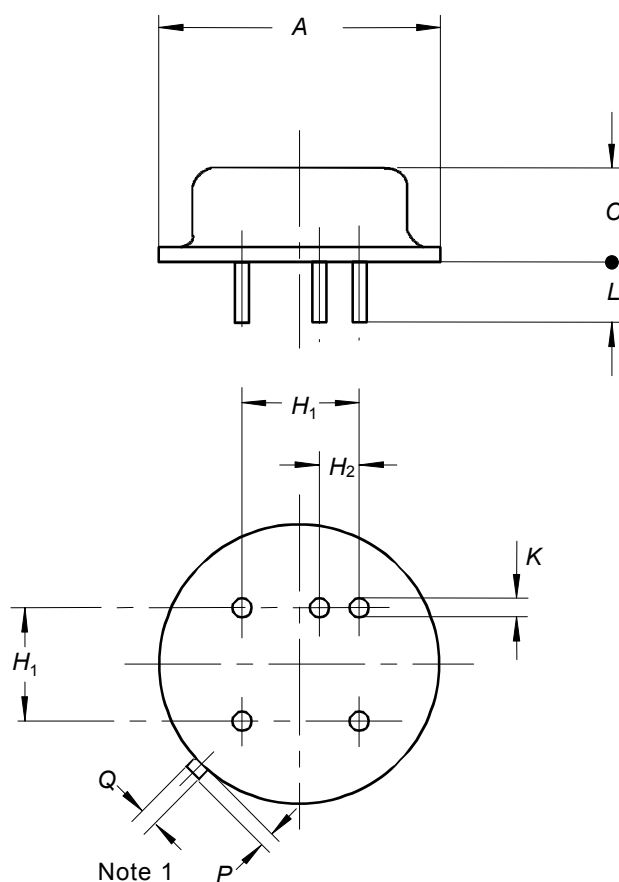
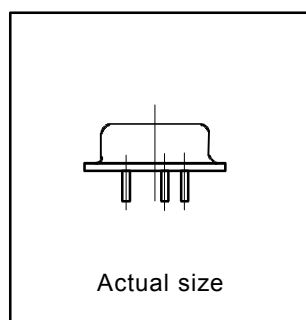
Only those dimensions which meet the requirements of the guidance for standardization of outline drawings are given (see Clause 2).

4 Designation of surface acoustic wave (SAW) filter enclosures

Table 1 – Designation of surface acoustic wave (SAW) filter enclosures

No.	Type	Sheet No.	Description	National reference	
				Country	Reference
1	SFA 01	Sheet 1	Metal, welded, five-lead TV-IF SAW filter outline		
2	SFA 03	Sheet 2	Metal, welded, five-lead TV-IF SAW filter outline		
3	SFA 04	Sheet 3	Metal, welded, five-lead TV-IF SAW filter outline		
4	SFA 05	Sheet 4	Metal, welded, eight-lead TV-IF SAW filter outline		
5	SFB 03	Sheet 5	Four-lead, plastic, metal shielded single-in-line TV-IF SAW filter outline		
6	SFE 01	Sheet 6	Metal, welded, five-lead TV-IF SAW filter outline		
7	SFF 01	Sheet 7	Ten-lead, plastic, dual-in-line TV-IF SAW filter outline	Germany	DIP 10
8	SFG 01	Sheet 8	Five-lead, plastic, single-in-line TV-IF SAW filter outline	Germany	SIP 5

This sheet forms part of IEC 60862-3.

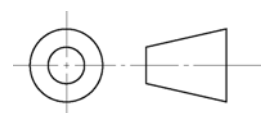


Ref.	Millimetres			Notes
	Min.	Nom.	Max.	
A	—	—	18,00	
C	—	—	6,00	
H ₁	7,30	7,50	7,70	
H ₂	2,30	2,50	2,70	
K	0,40	—	1,00	
L	4,00	—	—	
P	—	—	0,90	1
Q	—	—	0,90	1

NOTE 1 Tag position and presence are optional.

Metal, welded, five-wire TV-IF SAW filter outline, Type: SFA 01

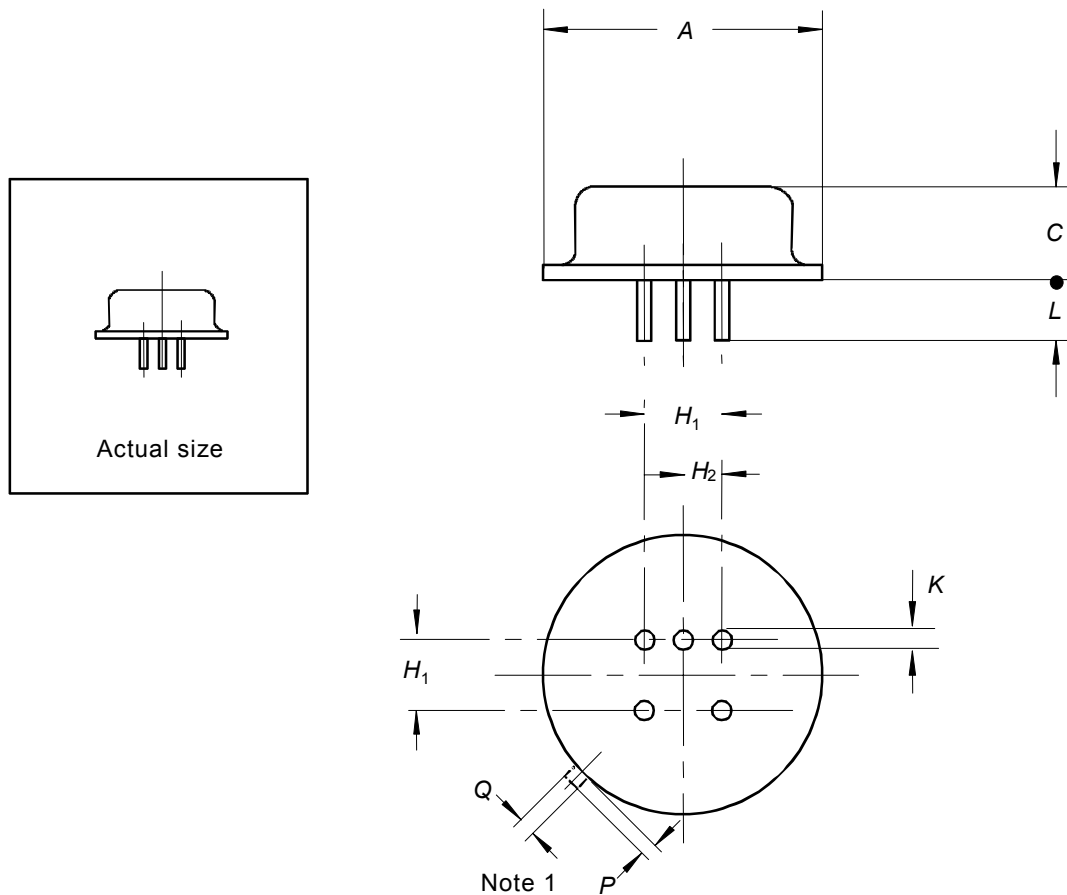
Scale
2:1



Sheet 1

Date: 2003-10

This sheet forms part of IEC 60862-3.

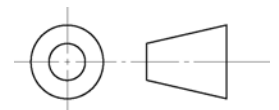


Ref.	Millimetres			Notes
	Min.	Nom.	Max.	
A	—	—	18,00	
C	—	—	6,00	
H ₁	4,80	5,00	5,20	
H ₂	2,30	2,50	2,70	
K	0,40	—	1,00	
L	4,00	—	—	
P	—	—	0,90	1
Q	—	—	0,90	1

NOTE 1 Tag position and presence are optional.

Metal, welded, five-wire TV-IF SAW filter outline, Type: SFA 03

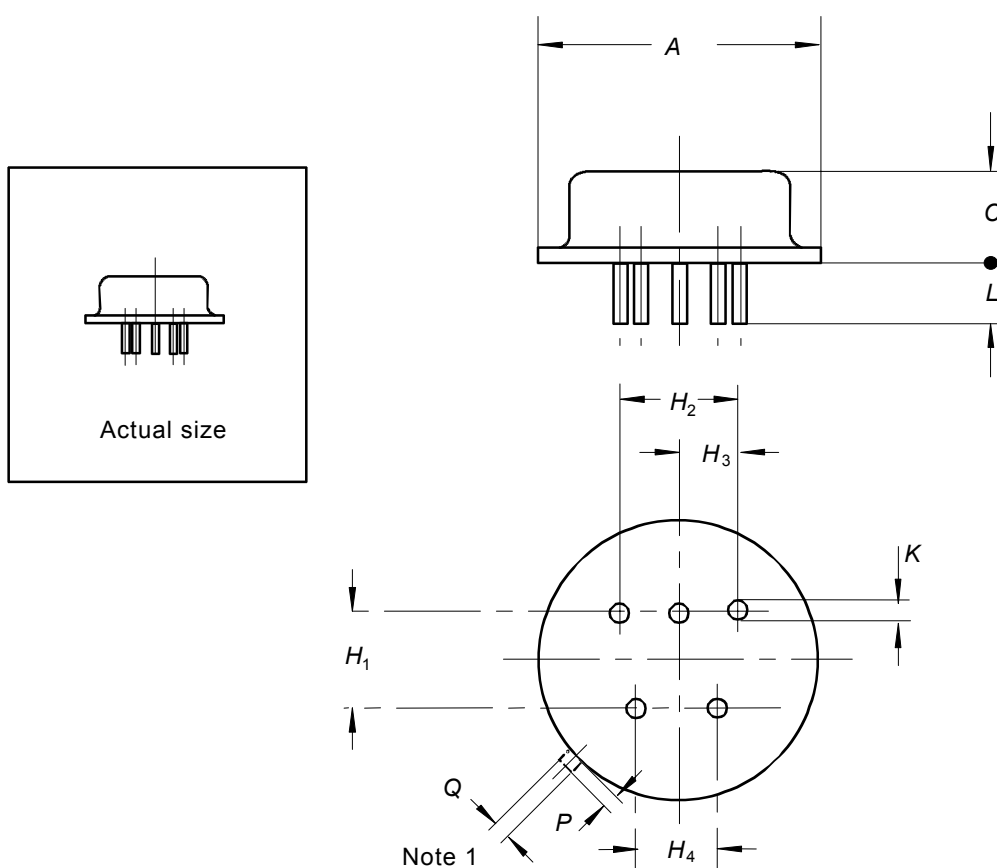
Scale
2:1



Sheet 2

Date: 2003-10

This sheet forms part of IEC 60862-3.

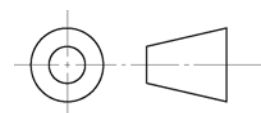


Ref.	Millimetres			Notes
	Min.	Nom.	Max.	
A	—	—	18,00	
C	—	—	6,00	
H ₁	6,05	6,25	6,45	
H ₂	7,30	7,50	7,70	
H ₃	3,55	3,75	3,95	
H ₄	4,80	5,00	5,20	
K	0,40	—	1,00	
L	4,00	—	10,00	
P	—	—	0,90	1
Q	—	—	0,90	1

NOTE 1 Tag position and presence are optional.

Metal, welded, five-wire TV-IF SAW filter outline, Type: SFA 04

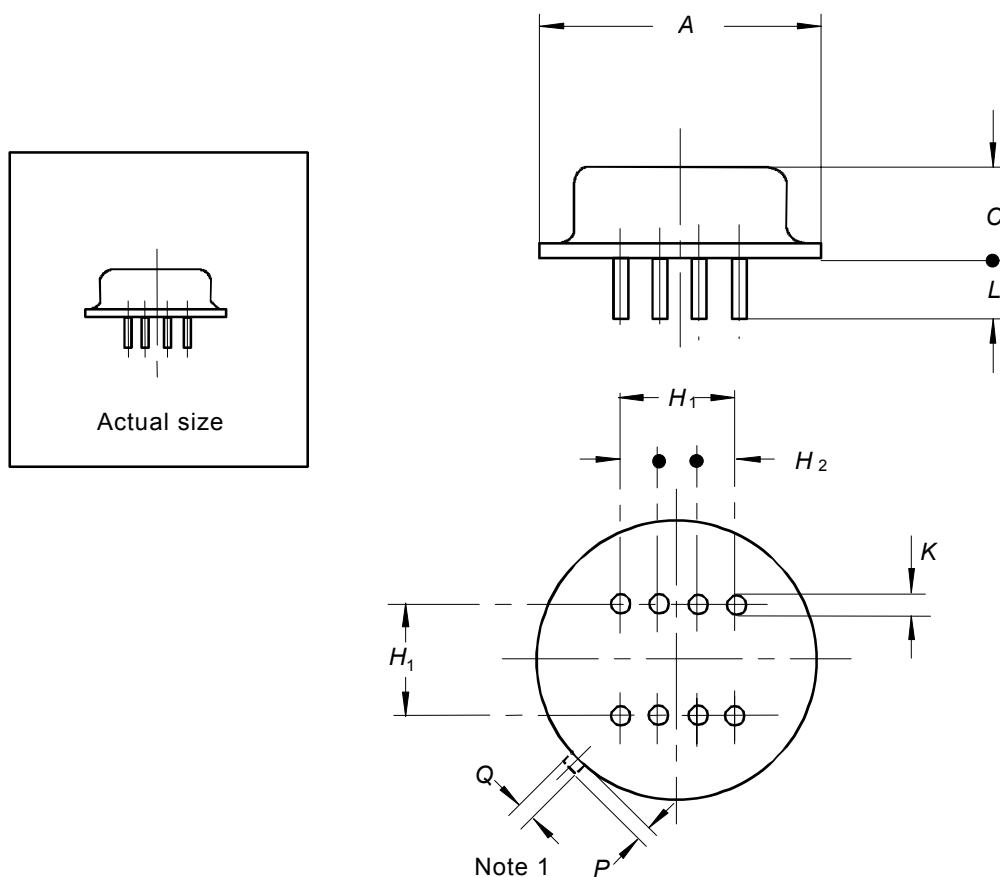
Scale
2:1



Sheet 3

Date: 2003-10

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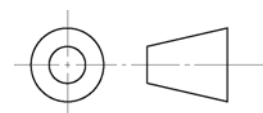


Ref.	Millimetres			Notes
	Min.	Nom.	Max.	
A	—	—	18,00	
C	—	—	6,00	
H ₁	7,30	7,50	7,70	
H ₂	2,30	2,50	2,70	
K	0,40	—	1,00	
L	4,00	—	—	
P	—	—	0,90	1
Q	—	—	0,90	1

NOTE 1 Tag position and presence are optional.

Metal, welded, eight-wire TV-IF SAW filter outline, Type: SFA 05

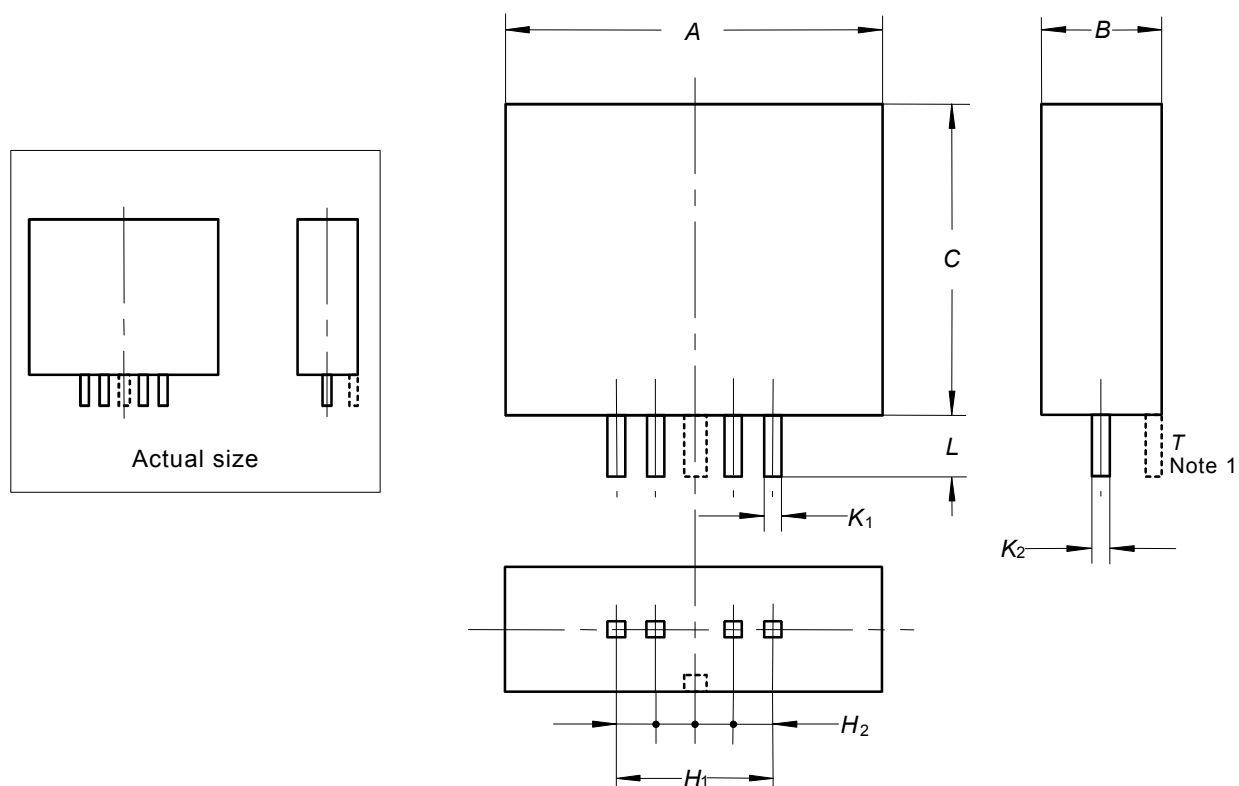
Scale
2:1



Sheet 4

Date: 2003-10

This sheet forms part of IEC 60862-3.

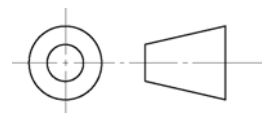


Ref.	Millimetres			Notes
	Min.	Nom.	Max.	
A	—	—	24,00	
B	—	—	8,00	
C	—	—	20,00	
H ₁	9,50	10,00	10,50	
H ₂	2,30	2,50	2,70	
K ₁	0,40	—	1,00	
K ₂	0,15	—	1,00	
L	3,00	—	—	

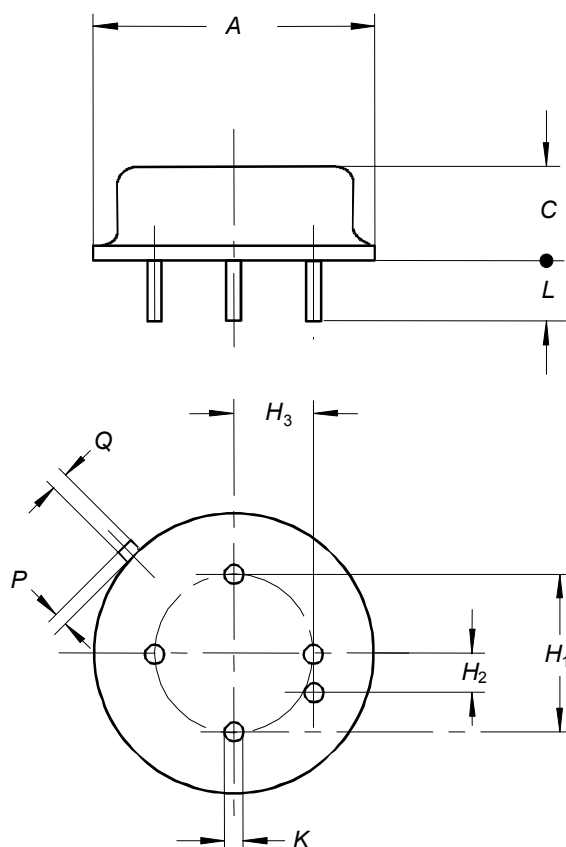
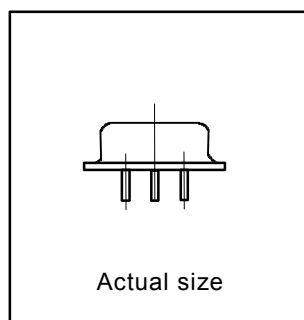
NOTE 1 T = ground terminal to T electric shielding. Presence and position of T are optional.

Four-wire, plastic, metal shielded single-in-line TV-IF SAW filter
outline, Type: SFB 03

Scale
2:1



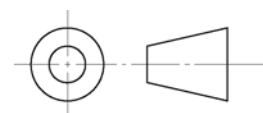
This sheet forms part of IEC 60862-3.



Ref.	Millimetres			Notes
	Min.	Nom.	Max.	
A	—	—	18,00	
C	—	—	6,00	
H ₁	9,86	10,16	10,46	
H ₂	2,20	2,54	2,80	
H ₃	4,78	5,08	5,38	
K	0,40	—	1,00	
L	4,00	—	10,00	
P	—	—	0,90	
Q	—	—	1,20	

Metal, welded, five-wire TV-IF SAW filter outline, Type: SFE 01

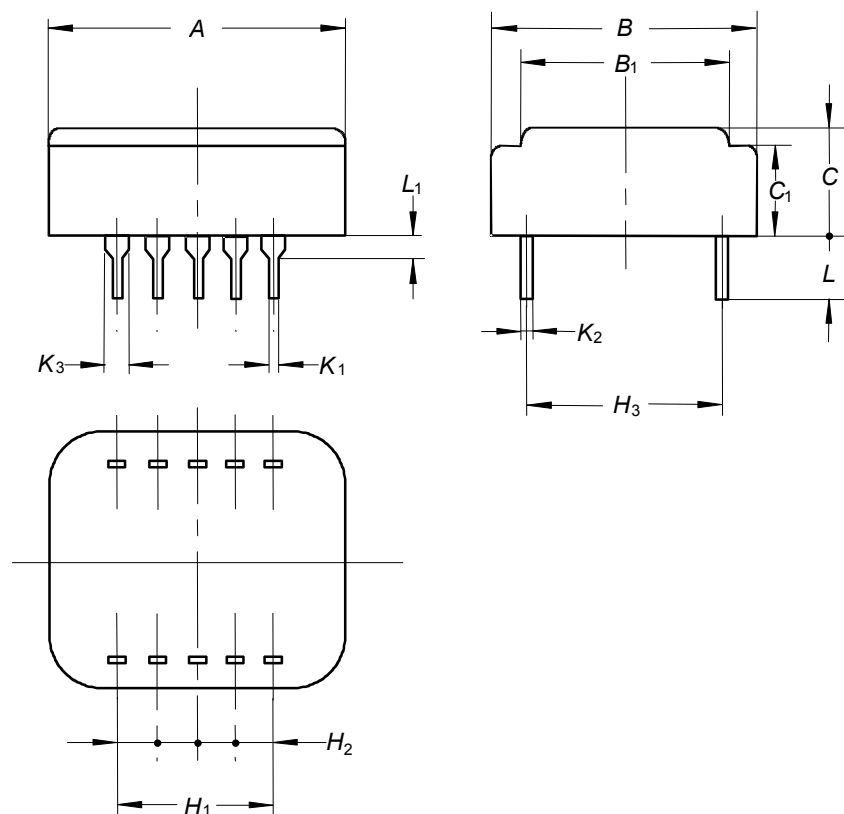
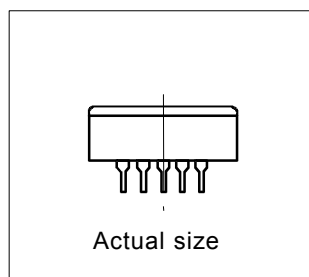
Scale
2:1



Sheet 6

Date: 2003-10

This sheet forms part of IEC 60862-3.

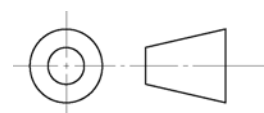


Ref.	Millimetres			Notes
	Min.	Nom.	Max.	
A	—	—	19,00	
B	—	—	17,00	
B ₁	12,00	12,10	—	
C	—	—	6,50	
C ₁	4,30	4,50	—	
H ₁	10,01	10,16	10,31	
H ₂	2,40	2,54	2,70	
H ₃	12,50	—	12,90	1
K ₁	0,50	—	0,55	
K ₂	0,25	—	0,30	
K ₃	1,30	—	1,50	
L	3,00	—	—	
L ₁	—	—	1,50	

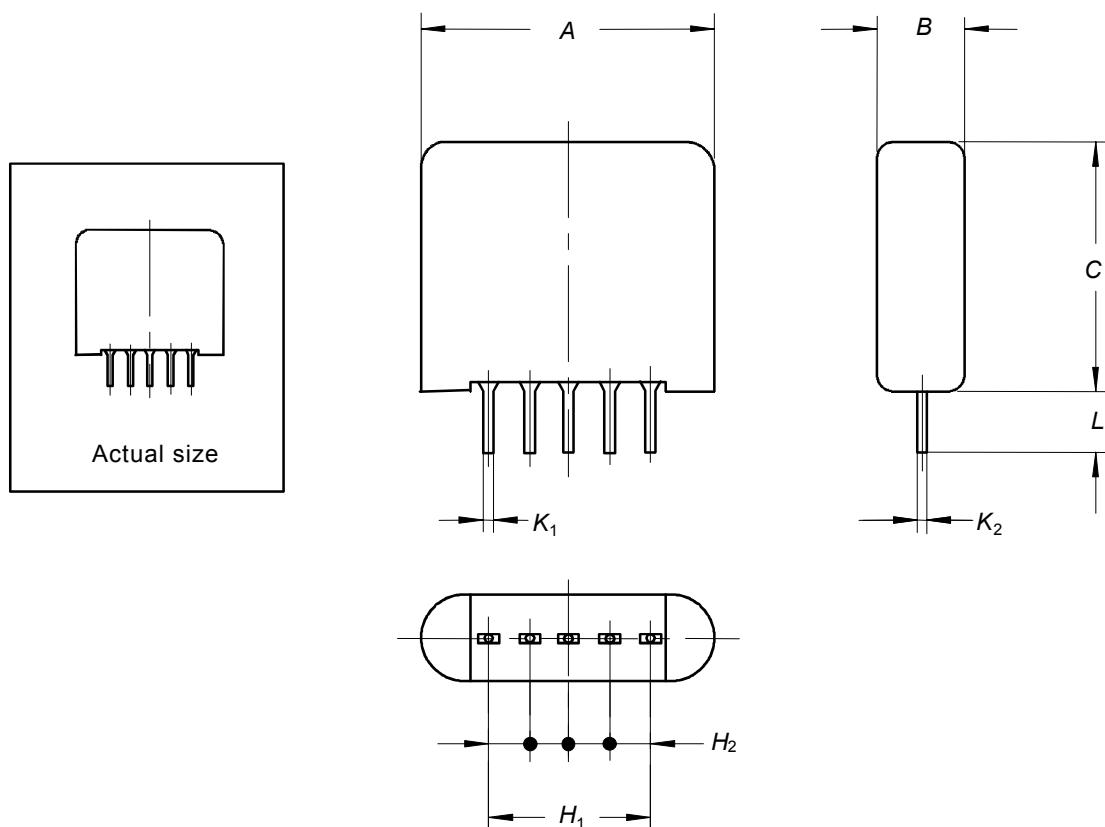
NOTE 1 Spacing of the free ends of the leads must not exceed 13,5 mm.

Ten-wire, plastic, dual-in-line TV-IF SAW filter outline, Type SFF 01.
National designation: Type: DIP 10

Scale
2:1



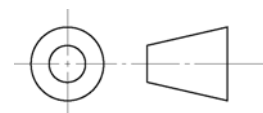
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Ref.	Millimetres			Notes
	Min.	Nom.	Max.	
A	—	—	19,00	
B	—	—	5,50	
C	—	—	16,00	
H ₁	10,01	10,16	10,31	
H ₂	2,40	2,54	2,70	
K ₁	0,45	—	0,55	
K ₂	0,25	—	0,30	
L	3,00	—	—	

Five-wire, plastic, single-in-line TV-IF SAW filter outline, Type SFG 01.
National designation: Type: SIP 5

Scale
2:1



Sheet 8

Date: 2003-10

Bibliography

IEC 60862-1, *Surface acoustic wave (SAW) filters of assessed quality – Part 1: Generic specification*

IEC 60862-2, *Surface acoustic wave (SAW) filters of assessed quality – Part 2: Guidance on use*

ISO 1101:1983, *Technical drawings – Geometrical tolerancing – Tolerancing of form, orientation, location and run-out – Generalities, definitions, symbols, indications on drawings*

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This Indian Standard has been developed from Doc No.: LITD 05 (3139).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002

Telephones: 2323 0131, 2323 3375, 2323 9402

Website: www.bis.org.in

Regional Offices:

Telephones

Central	: Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	{ 2323 7617 2323 3841
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